

Specification for Small Ruminant Medicine course 2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Science (BVMSc)
2.	Department offering the course	Animal Medicine (Internal Medicine)

Date of specification approval: ministerial decree No. 1727 on 26/4/2017
(Approved in this template by the department council on 1/10/2019)

B-Basic information

1.	Course title	Small Ruminant and Camel Medicine
2.	Course code	503 (A) III
3.	Level	5 th year
4.	Semester	First semester
5.	Total hours	5
6.	Lecture hours	2
7.	Practical hours	3

C-Professional Information

1- Course learning objectives

The aims of this course are to allow student to:

- Identify the small ruminant and camel diseases that are most commonly affecting sheep, goat and camel in Egypt and their treatment.
- Conduct accurate diagnosis, differential diagnosis and treatment of these diseases in small ruminant. Diseases of digestive, skin, wool, urinary and metabolic disorders are of particular concern because of their relation to the milk, meat and wool production.

2- Intended learning outcomes of the course (ILOs):

a- Knowledge and understanding

After successful completion of the course the students should be able to:

- Describe the function and anatomy of different of small ruminant and camel
- Define different diseases affecting small ruminant and camel.
- Nominate the system affected then the organ within the system.
- Identify the cause-disease interaction through the pathogenesis
- Conduct differential diagnosis between related diseases
- Designate the general state disorders of small ruminant and camel.
- List a treatment schedule for each disease with regard to type of drug, effective dose and time of dosing.
- Describe a protocol for prevention and control of small ruminant and

Disease of urinary system in sheep and goat	2	-
Nutritional deficiency diseases in sheep and goat	2	-
Diseases of skin in sheep and goat	2	-
Diseases affecting digestive and respiratory system in camel	6	
Diseases affecting urinary system and skin in camel	2	
Diseases of skin in camel	2	-
General examination of sheep and goat	-	9
Clinical examination of digestive system of sheep and goat	-	6
Clinical examination of respiratory system of sheep and goat	-	3
Clinical examination of cardiovascular system of sheep and goat	-	3
Clinical examination of respiratory system of sheep and goat	-	6
Clinical examination of nervous system of sheep and goat	-	4
Clinical examination of urinary system of sheep and goat	-	4
Clinical examination of skin of sheep and goat	-	4
Laboratory examination of feces and ruminal juice	-	3
Total	30	45

The midterm and practical exams are included during the semester

3.2- ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
General Medicine of small ruminant and camel	a4, a6	b1, b2,b3, b4	c1, c2 , c3, c4	d1, d2,
Diseases of digestive system in sheep and goat	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3,d4,
Diseases of respiratory system in sheep and goat	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3,d4,
Metabolic diseases in sheep and goat	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3,d4
Diseases of cardiovascular system in sheep and goat	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3, d4
Disease of urinary system in sheep and goat	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3, d4
Nutritional deficiency diseases	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4, c5	d1, d2, d3, d4,

in sheep and goat				
Diseases of skin in sheep and goat	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4
Diseases affecting digestive and respiratory system in camel	a1, a2, a3, a5, a7, a8	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4
Diseases affecting urinary system and skin in camel	a1, a6	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Diseases of skin in camel	a1, a2, a3	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
General examination of sheep and goat	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination of digestive system of sheep and goat	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination of respiratory system of sheep and goat	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination of cardiovascular system of sheep and goat	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination of respiratory system of sheep and goat	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d1, d2, d3, d4,d5
Clinical examination of nervous system of sheep and goat	a1, a2, a3, a5	b1, b2,b3, b4, b5	c1, c2 , c3, c4	d2, d3

4- Teaching, learning and assessment methods:

ILOs	Teaching and Learning methods							assessment method					
	L	P&M	D	P	Ps	Bs	Ft	semester	midterm	oral	practical	written	
Knowledge and understanding	a1	x	x	x	0	0	x	0	x	x	x	0	x
	a2	x	x	x	0	0	x	0	x	x	x	0	x
	a3	x	x	x	0	0	x	0	x	x	x	0	x
	a4	x	x	x	0	0	x	0	x	x	x	0	x
	a5	x	x	x	0	0	x	0	x	0	x	0	x
	a6	x	x	x	0	0	x	0	x	0	x	0	x
	a7	x	x	x	0	0	x	0	x	0	x	0	x
	a8	x	x	x	0	0	x	x	x	0	x	0	x
Intellectual skills	b1	x	x	x	0	x	x	x	x	x	x	0	x
	b2	x	x	x	0	x	x	x	x	x	x	0	x
	b3	x	x	x	0	x	x	x	x	x	x	0	x
	b4	x	x	x	0	x	x	x	x	x	x	0	x
	b5	x	x	x	0	x	x	x	x	0	x	0	x

Professional and practical skills	b6	x	x	x	0	x	x	x	x	0	x	0	x
	c1	0	x	x	x	x	0	x	x	0	x	x	0
	c2	0	x	x	x	x	0	x	x	0	x	x	0
	c3	0	x	x	x	x	0	x	x	0	x	x	0
	c4	0	x	x	x	x	0	x	x	0	x	x	0
General skills	c5	0	x	x	x	x	0	x	x	0	x	x	0
	d1	x	x	x	0	0	x	x	x	0	x	x	0
	d2	0	0	x	0	x	x	x	x	0	x	x	0
	d3	0	0	0	x	0	x	x	x	0	x	0	0
	d4	0	x	x	x	x	0	0	x	0	x	0	0
d5	0	0	0	x	x	0	0	x	0	x	0	0	

L :Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars PT: Practical, Ps: Problem solving, Bs: Brain storming, Ft: field trip

5- Assessment timing and grading:

Assessment method	timing	grade
Mid-term exam and semester work	6 th week	15
Practical exam	14 th week	20
oral exam	End of semester	15
Written exam	End of semester	50
total		100

6- List of references

6.1- Course notes:

Small Ruminant and Camel Medicine: summarized integrated course for 5th grade students **edited by staff members**

6.2- Essential books (text books)

- Philip R Scott (2010) Sheep Medicine.
- Richard W. Nelson (2009) Small Animal Internal Medicine.
- Michael D. Lorenz, T. Mark (2009) Small animal medical diagnosis

6.3- Recommended books

- Course note.
- Richard W. Nelson (2009) Small Animal Internal Medicine.
- Michael D. Lorenz, T. Mark (2009) Small animal medical diagnosis.

6.4- Periodicals, Web sites, . . . etc

- Journal of Animal Science.
- Research on Veterinary Science
- Journal of American Veterinary Medical Association
- American Journal of Veterinary Research
- Tropical animal health and production
- Preventive veterinary Medicine
- Benha veterinary medical journal
- <http://www.ivis.org>
- <http://www.merckvetmanual.com/mvm/index.jsp>

- www.drghanem.co.nr
- www.ekb.eg

7- Facilities required for teaching and learning

- Teaching hall (data show, white board).
- Equipped laboratory of veterinary medical diagnosis (Medical stethoscope and thermometer- Ultrasonography- Electrocardiograph (ECG)).
- Samples of veterinary drug.
- Veterinary hospital
- Educational farm for conducting the clinical examination of animals

Course coordinator: Prof. Dr. YASSEIN MAHMOUD ABD AL-RAOF.

Head of department PROF. DR. FAISEL KHALIL ARNAOUT

Signature

Date 1/10/2019

